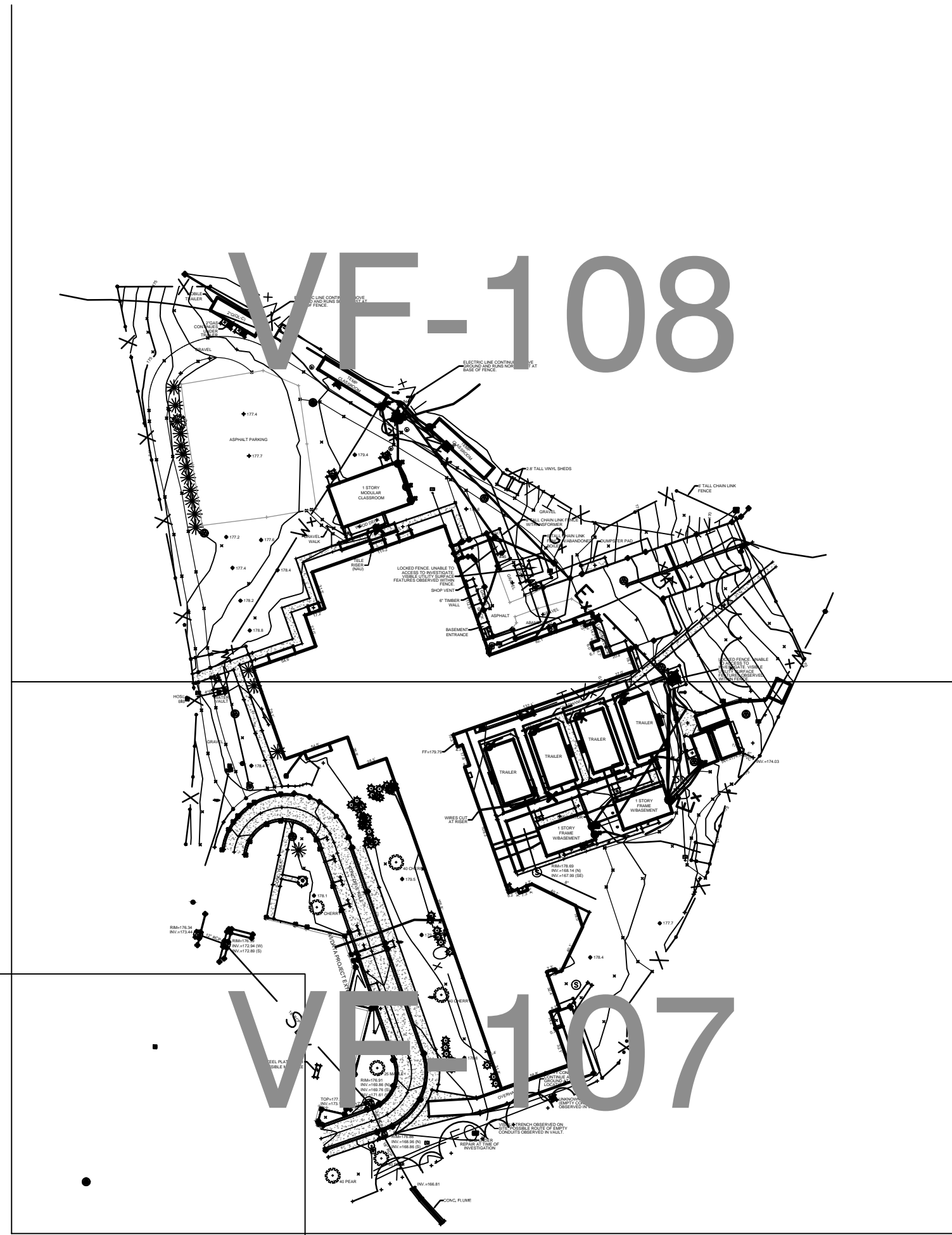
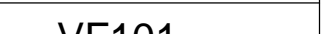
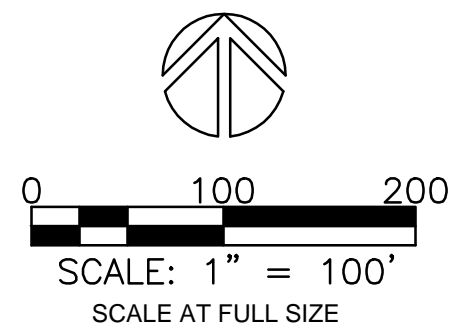
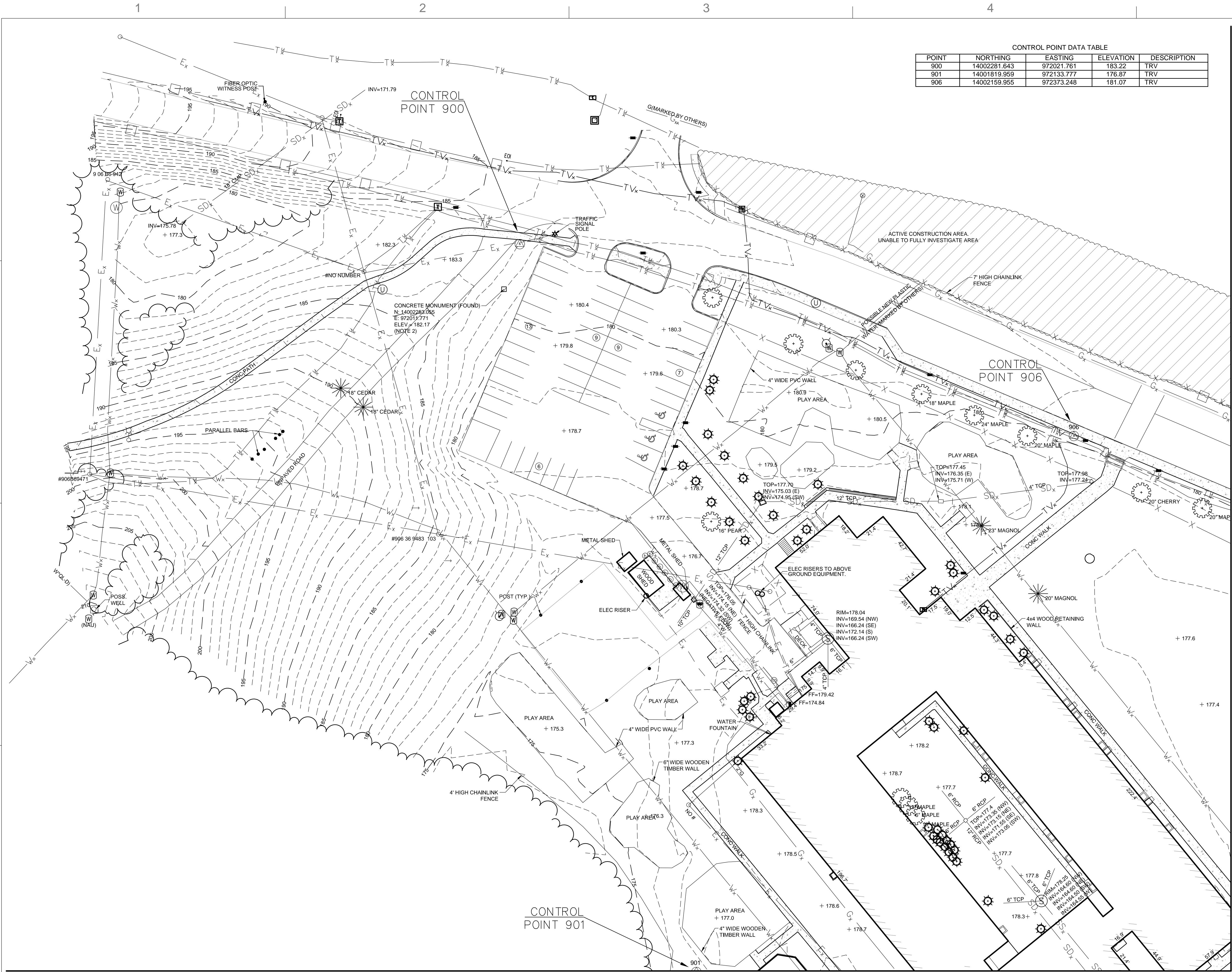


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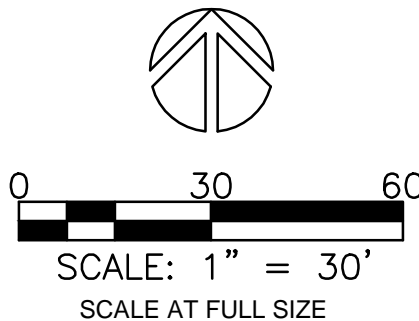
1. SURVEY PERFORMED JUNE 2014 BY STANTEC, INC.
6110 FROST PLACE
LAUREL, MD 20707
2. HORIZONTAL DATUM IS WGS 1984 UTM ZONE 18N (U.S. SURVEY FOOT)
3. VERTICAL DATUM IS NAVD88 AND IS REFERENCED TO QUANTICO CONTROL MONUMENT (SEE PLAN)
4. CONDITIONS DEPICTED ON THESE SURVEY DRAWINGS (VF101 THROUGH VF106) MAY NOT REFLECT CURRENT SITE CONDITIONS DUE TO DEMOLITION OF EXISTING RUSSELL SCHOOL BY OTHERS.
5. UNDERGROUND UTILITIES SHOWN HEREON WERE OBTAINED FROM ACCURATE INFRASTRUCTURE DATA, INC. (A/I/DA) BY A FIELD SURVEY COMPLETED ON JUNE 17, 2014. THE UTILITY QUALITY LEVELS DEFINED AS FOLLOWS:
 - QUALITY LEVEL "D" (QL-D)
INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.
 - QUALITY LEVEL "C" (QL-C)
INVOLVES SURVEYING VISIBLE ABOVEGROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, POSTS, ETC., AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.
 - QUALITY LEVEL "B" (QL-B) - DESIGNATING
INVOLVES THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF UNDERGROUND UTILITIES.
 - QUALITY LEVEL "A" (QL-A) - LOCATING
INVOLVES THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT CRITICAL POINTS TO DETERMINE THE PRECISE HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS





CONTROL POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
900	14002281.643	972021.761	183.22	TRV
901	14001819.959	972133.777	176.87	TRV
906	14002159.955	972373.248	181.07	TRV

MATCH LINE SEE SHEET V-104



APPROVED

FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

Designator JMS Author BKO Checker AKA

PMCM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

DEPARTMENT OF THE NAVY

NAVFAC DRAWING NO. 13090770

PROJECT NO. P-021

CONSTR. CONTR. NO. W91236-15-C-0023

SHEET 16 OF 789

VF103

REPLACE QUANTICO M/H SCHOOL

QUANTICO, VA

SITE SURVEY

NAV FAC

COMMONWEALTH OF VIRGINIA

ALAN KARL ARNOLD

Lic. No. 029939

10-13-2016

PROFESSIONAL ENGINEER

SEAL

EWING COLE

Federal Reserve Bank Building

100 North 6th Street

Philadelphia, PA 19106

Tel: 215.923.2020 Fax: 215.574.0952

STANTEC

6110 FROST PLACE

LAUREL, MD 20707

AVE INFO

DATE

APPR.

SYN.

DESCRIPTION

[illegible]

STANTEC
6110 FROST PLACE
LAUREL, MD 20707
A/E INFO

APPROVED

SATISFACTORY TO	DATE	--/--
Designer JMS	Author BKO	Checker AKA

Designer: JHS	Author: BRO	Checker: ARK
PM/DM		

BRANCH MANAGER

CHIEF ENG/ ARCH
FIRE PROTECTION

ND	A	A	
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ENGINEERING CHINA QUANTUM QUANTUM HOL

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REPARATION OF THE MARSHES OF THE RIVER

SCALE: 1" = 30'

PROJECT NO.:	P-021
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CONSTR. CONTR. NO.
W01000 15 0 0000

NAVFAC DRAWING NO.

13090771

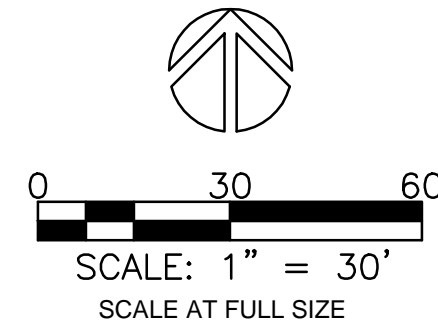
SHEET 17 OF 789

VF104

DRAWFORM REVISION: 10 MARCH 2009

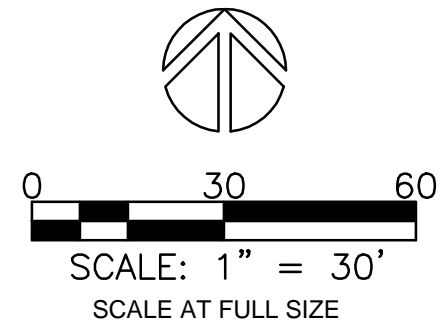
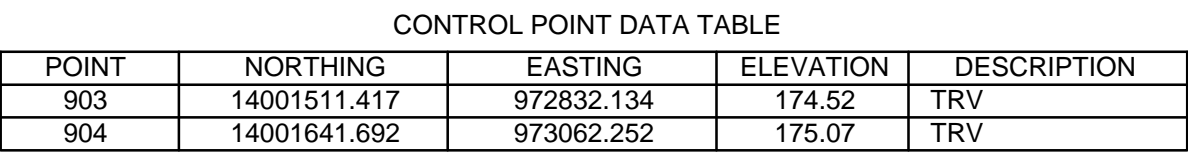
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MATCH LINE SEE SHEET V-106



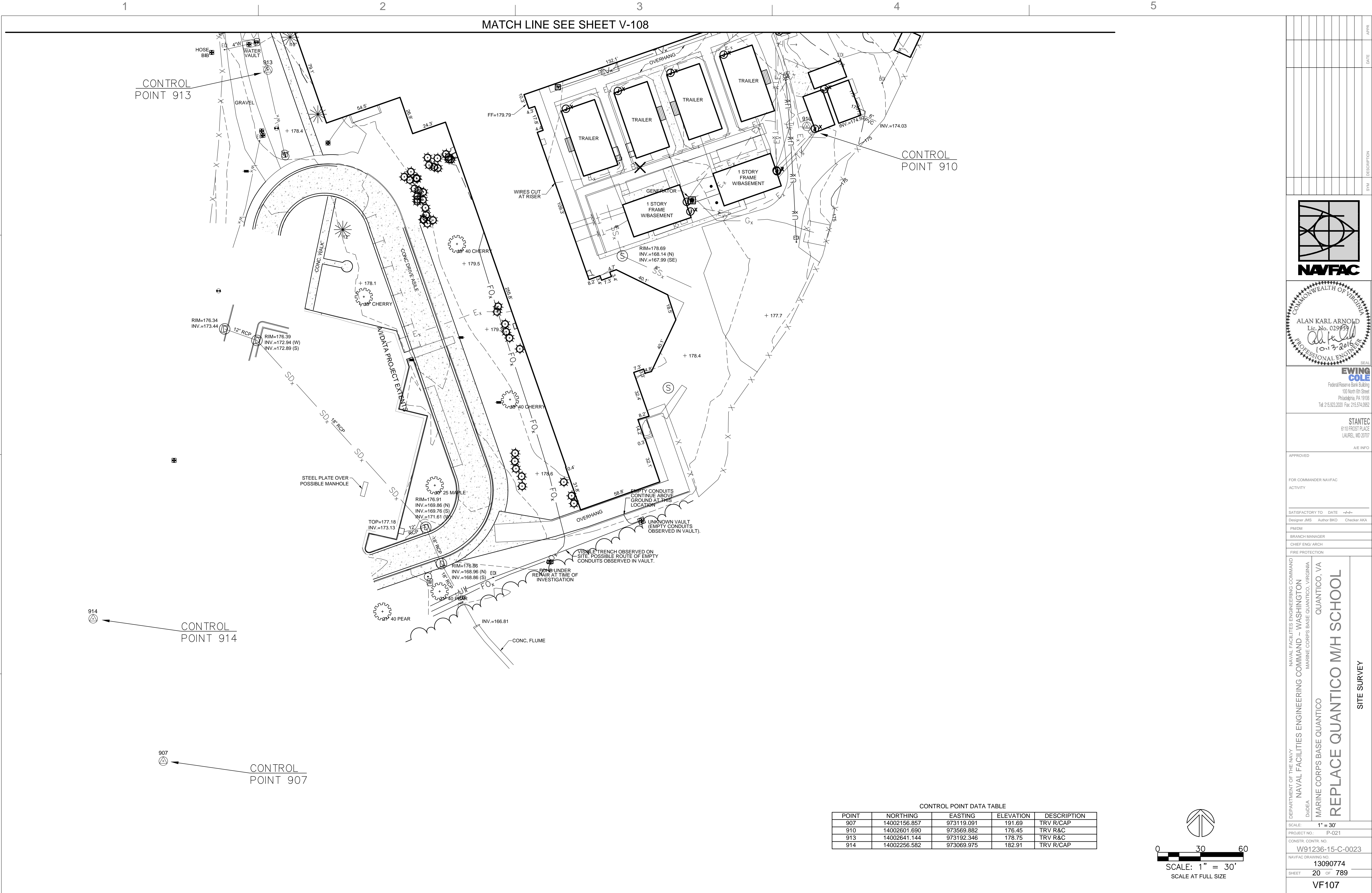
RTA SUBMISSION - 10/13/2016

MATCH LINE SEE SHEET V-105

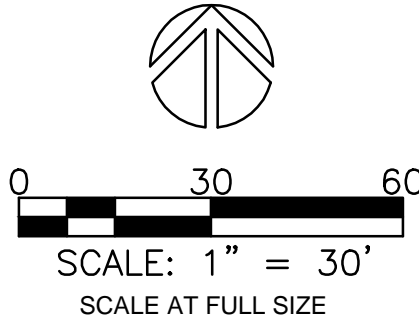


RTA SUBMISSION - 10/13/2016

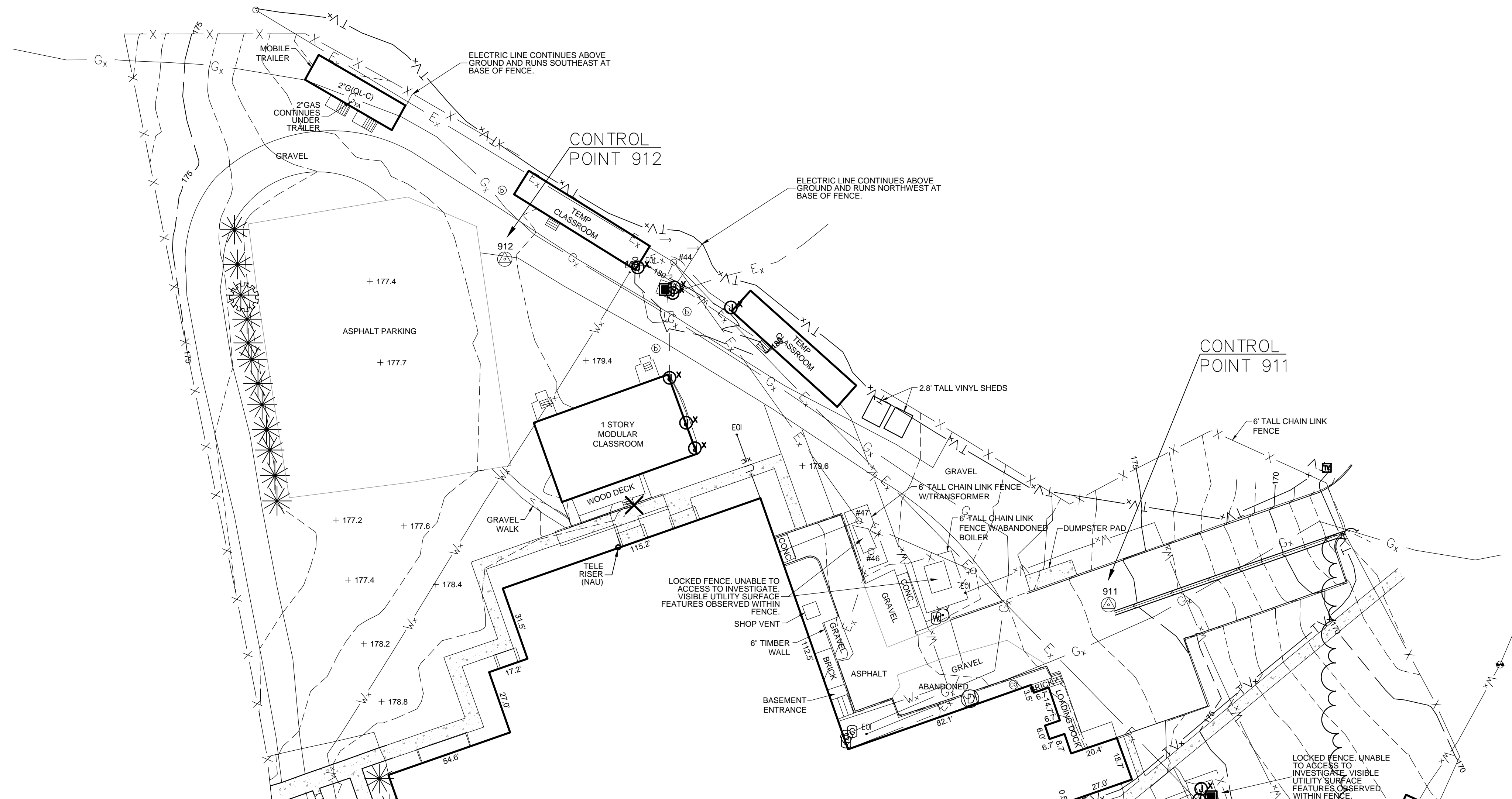
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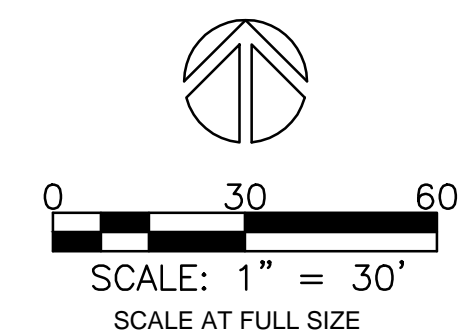
CONTROL POINT DATA TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
907	14002156.857	973119.091	191.69	TRV R/CAP
910	14002601.690	973569.882	176.45	TRV R&C
913	14002641.144	973192.346	178.75	TRV R&C
914	14002256.582	973069.975	182.91	TRV R/CAP



POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
911	14002750.638	973511.996	175.59	TRV MAG NAIL
912	14002896.960	973256.500	178.93	TRV R/CAP



MATCH LINE SEE SHEET V-107



RTA SUBMISSION - 10/13/2016

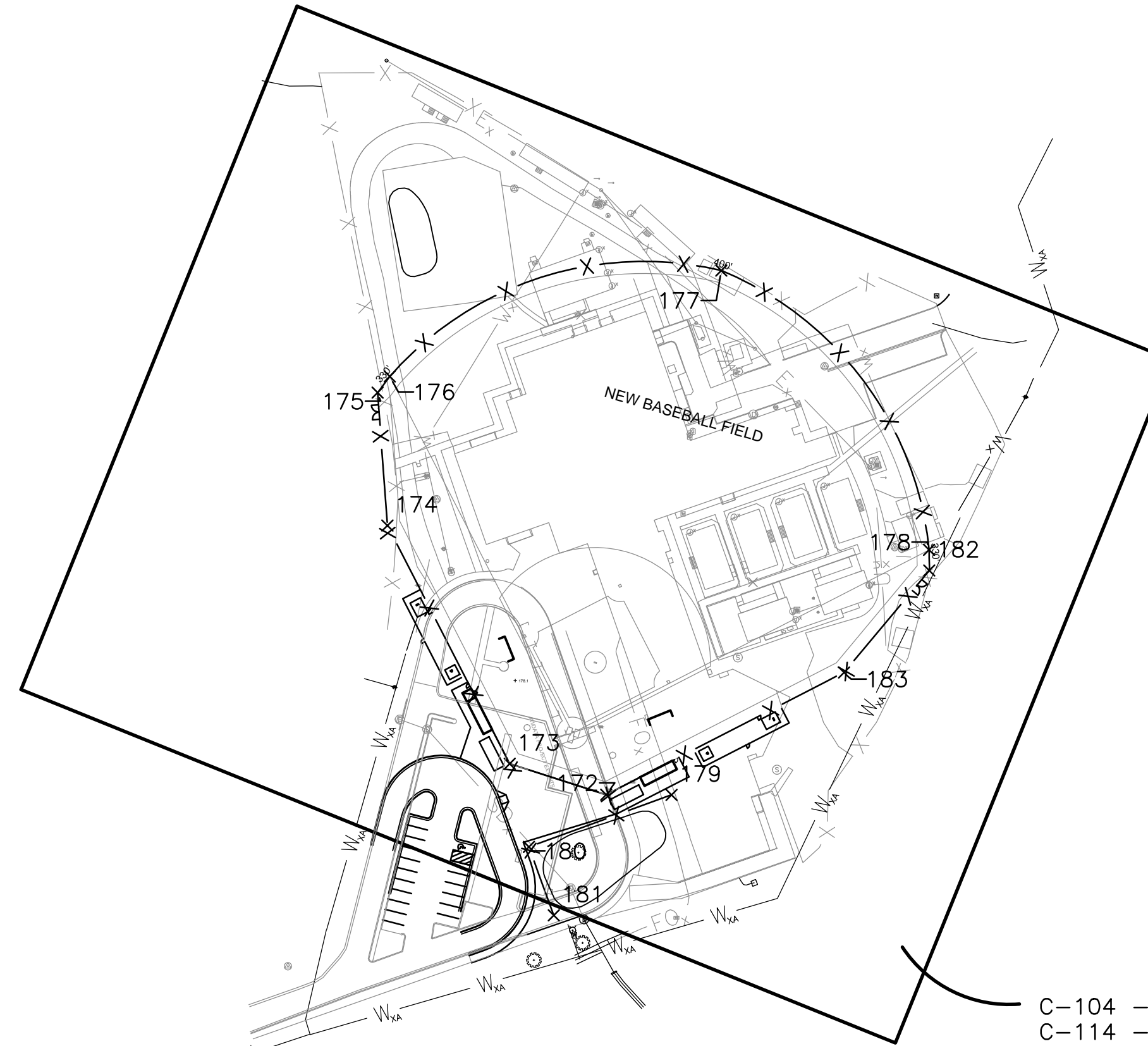
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A

- C-104 – PHASE 1 SEDIMENT AND EROSION CONTROL PLAN
 C-114 – PHASE 2 SEDIMENT AND EROSION CONTROL PLAN
 CD104 – SITE DEMOLITION PLAN
 CH104 – SITE LAYOUT PLAN
 CH114 – PAVEMENT MARKINGS AND SIGNAGE PLAN
 CG104 – SITE GRADING PLAN
 CU104 – STORM DRAIN PLAN
 CU114 – STORMWATER MANAGEMENT PLAN
 CU124 – WATER AND SEWER PLAN

- | | | |
|-------|---|---|
| C-102 | - | PHASE 1 SEDIMENT AND EROSION CONTROL PLAN |
| C-112 | - | PHASE 2 SEDIMENT AND EROSION CONTROL PLAN |
| CD102 | - | SITE DEMOLITION PLAN |
| CH102 | - | SITE LAYOUT PLAN |
| CH112 | - | PAVEMENT MARKINGS AND SIGNAGE PLAN |
| CG102 | - | SITE GRADING PLAN |
| CU102 | - | STORM DRAIN PLAN |
| CU112 | - | STORMWATER MANAGEMENT PLAN |
| CU122 | - | WATER AND SEWER PLAN |

- NOTE:
N/A – PAVEMENT MARKINGS AND SIGNAGE PLAN
N/A – WATER AND SEWER PLAN



CI401 - LOADING DOCK AREA
PAVEMENT JOINT PLAN

—PURVIS ROAD

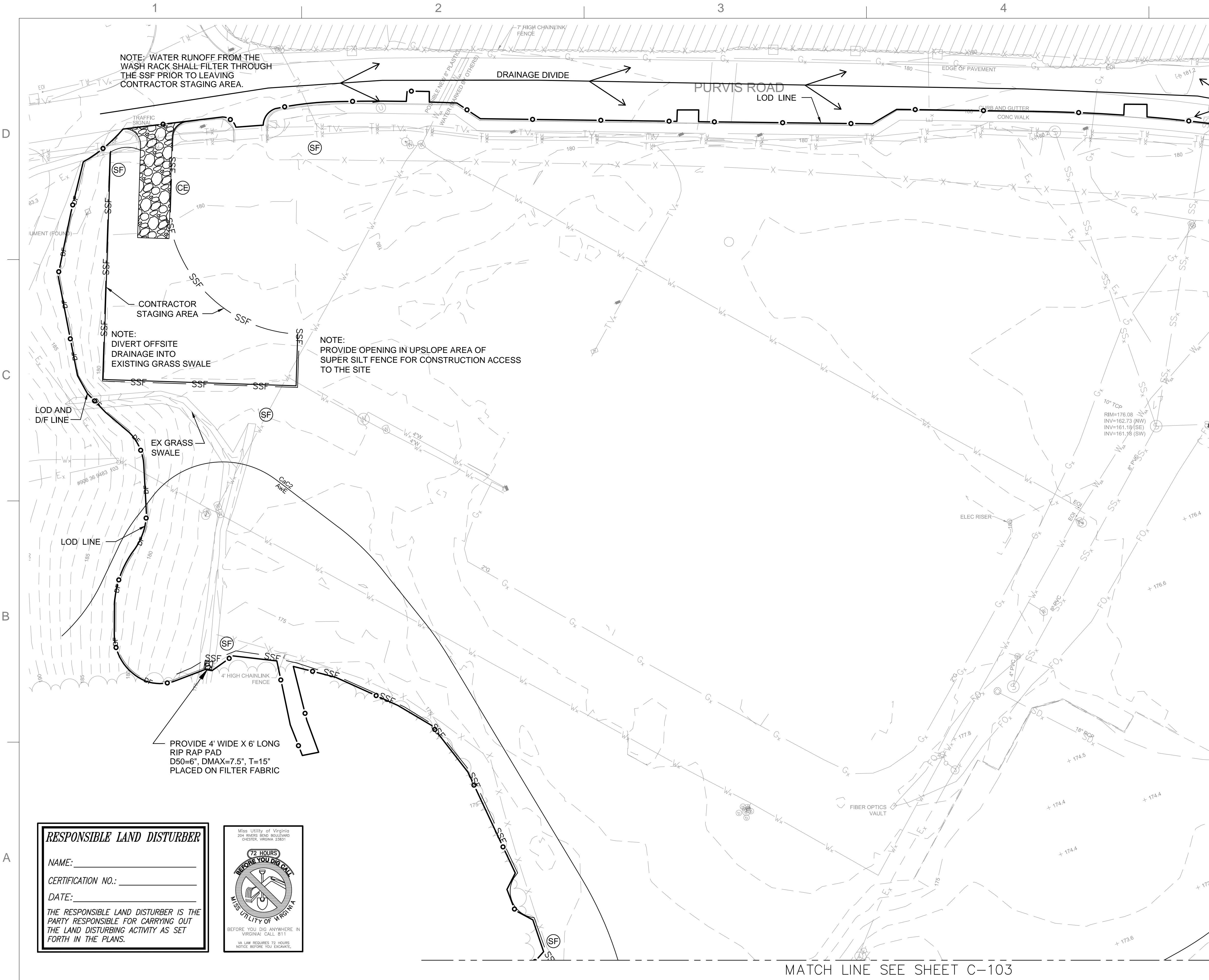
CIVIL SHEET INDEX

NOTE: SEE SHEET VF101 FOR INDEX OF SURVEY SHEETS



RTA SUBMISSION - 10/13/2016

[illegible]



NOTE:
PRIOR TO ANY LAND DISTURBANCE ACTIVITIES, CONDUCT A PRE-CONSTRUCTION CONFERENCE. GENERAL CONTRACTOR SHALL SCHEDULE PRE-CONSTRUCTION MEETING WITH NAVFAC, NREA AND ALL GROUND DISTURBANCE CONTRACTORS PRIOR TO START OF CONSTRUCTION

PHASE 1
NOTE:
SEE SEQUENCE OF CONSTRUCTION ON SHEET C-501.

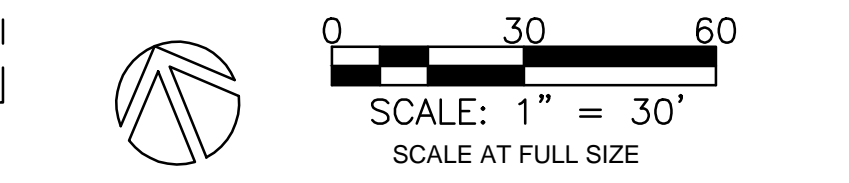
STABILIZE GRADED AREAS IMMEDIATELY AFTER FINAL GRADING IS COMPLETED. ON AREAS THAT WILL HAVE NO ADDITIONAL DISTURBANCE, PERMANENT VEGETATION SHOULD BE APPLIED IMMEDIATELY TO THE SITE (SEE PERMANENT SEEDING PRACTICE) IF GRADING IS FINISHED OUTSIDE OF THE RECOMMENDED PLANTING DATES A TEMPORARY COVER SHOULD BE INSTALLED USING TEMPORARY SEEDING OR OTHER APPROPRIATE COVER AND THE PERMANENT SEEDING PLANNED FOR THE NEXT PLANTING PERIOD. ON AREAS WHERE WORK IS TO BE INTERRUPTED OR DELAYED FOR 14 WORKING DAYS OR LONGER, SUCH AS TOPSOIL STOCKPILE, THE AREA SHOULD BE STABILIZED USING MULCH OR TEMPORARY SEEDING (SEE MULCHING OR TEMPORARY SEEDING PRACTICE).

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE LATEST ADDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

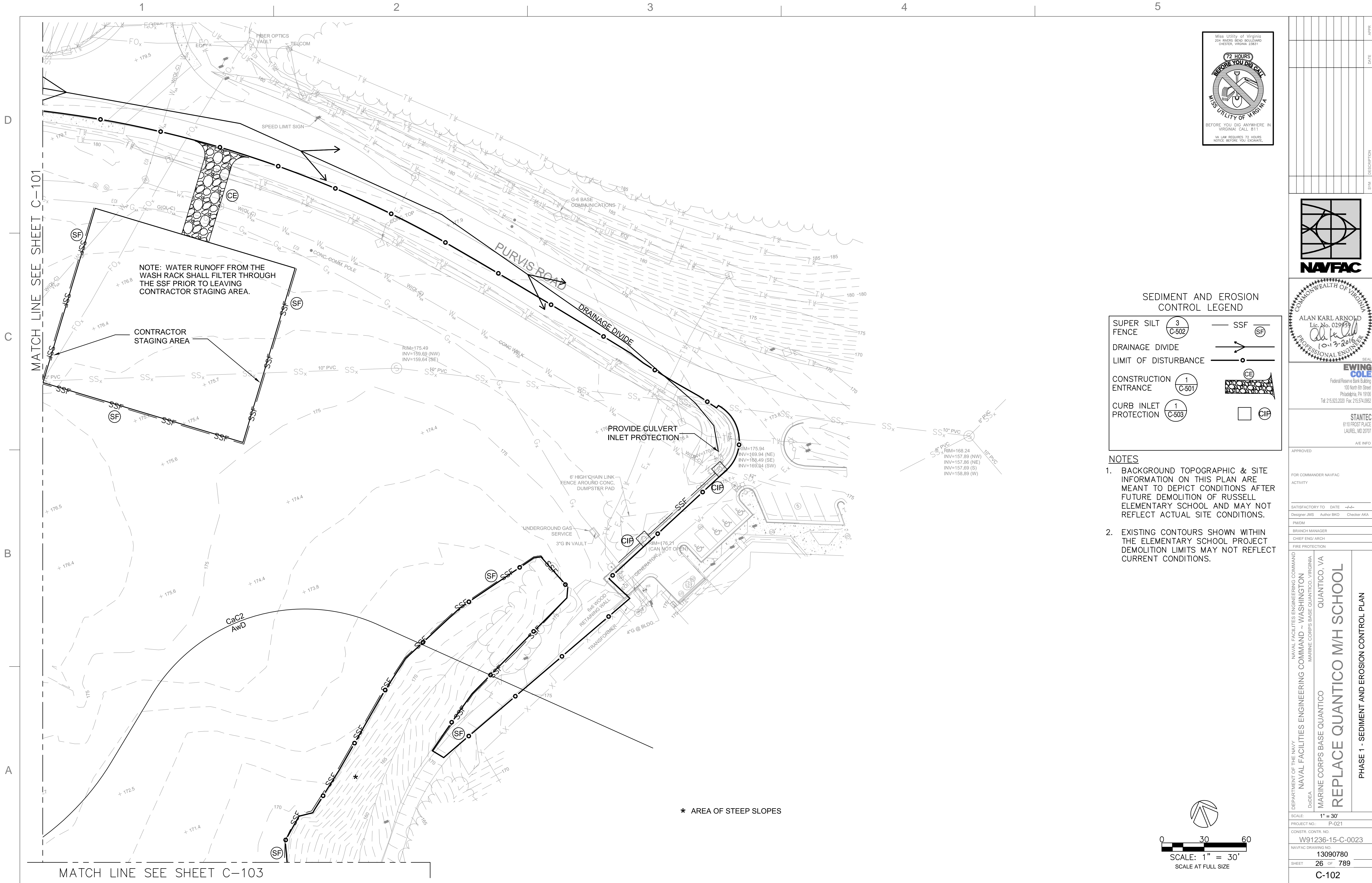
SEDIMENT AND EROSION CONTROL LEGEND

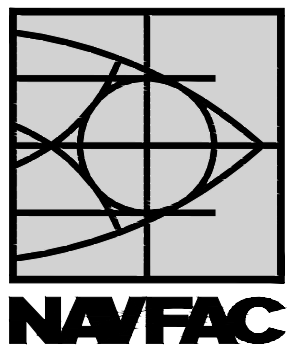
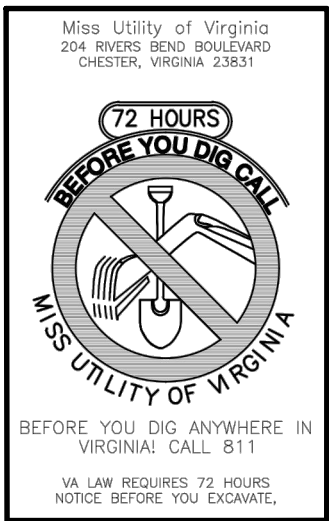
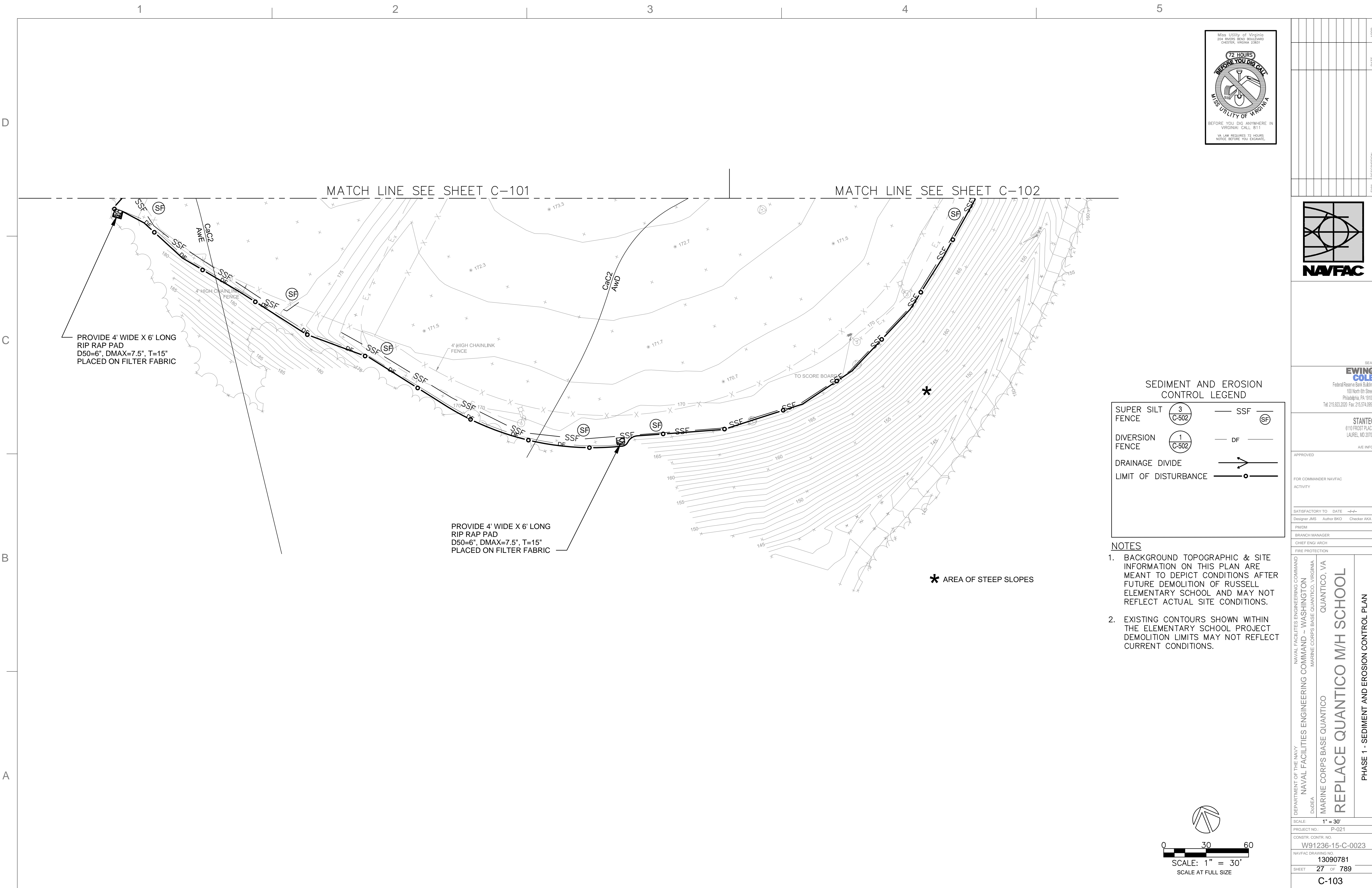
SUPER SILT FENCE	(3) C-502	SSF	(SF)
DIVERSION FENCE	(1) C-502	DF	
DRAINAGE DIVIDE			
LIMIT OF DISTURBANCE			
CONSTRUCTION ENTRANCE	(1) C-501		

- NOTES
1. BACKGROUND TOPOGRAPHIC & SITE INFORMATION ON THIS PLAN ARE MEANT TO DEPICT CONDITIONS AFTER FUTURE DEMOLITION OF RUSSELL ELEMENTARY SCHOOL AND MAY NOT REFLECT ACTUAL SITE CONDITIONS.
 2. EXISTING CONTOURS SHOWN WITHIN THE ELEMENTARY SCHOOL PROJECT DEMOLITION LIMITS MAY NOT REFLECT CURRENT CONDITIONS.



APPROVED	FOR COMMANDER NAVFAC ACTIVITY	SATISFACTORY TO DATE	DESIGNER JMS	AUTHOR BKO	CHECKER AKA
BRANCH MANAGER					
CHIEF ENG/ ARCH					
FIRE PROTECTION					
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON					
MARINE CORPS BASE QUANTICO, VIRGINIA					
QUANTICO, VA					
REPLACE QUANTICO M/H SCHOOL					
PHASE 1 - SEDIMENT AND EROSION CONTROL PLAN					
SCALE: 1" = 30'					
PROJECT NO.: P-021					
CONSTR. CONTR. NO. W91236-15-C-0023					
NAVFAC DRAWING NO. 13090779					
SHEET 25 OF 789					
C-101					





SEAL
EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106
Tel: 215.923.2020 Fax: 215.574.0952

STANTEC
6110 FROST PLACE
LAUREL, MD 20707

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE *4/1/16*

Designer JMS Author BKO Checker AKA

PM/CM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

DADEA MARINE CORPS BASE QUANTICO, VIRGINIA

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

PHASE 1 - SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1" = 30'

PROJECT NO.: P-021

CONSTR. CONTR. NO.

W91236-15-C-0023

NAVFAC DRAWING NO.

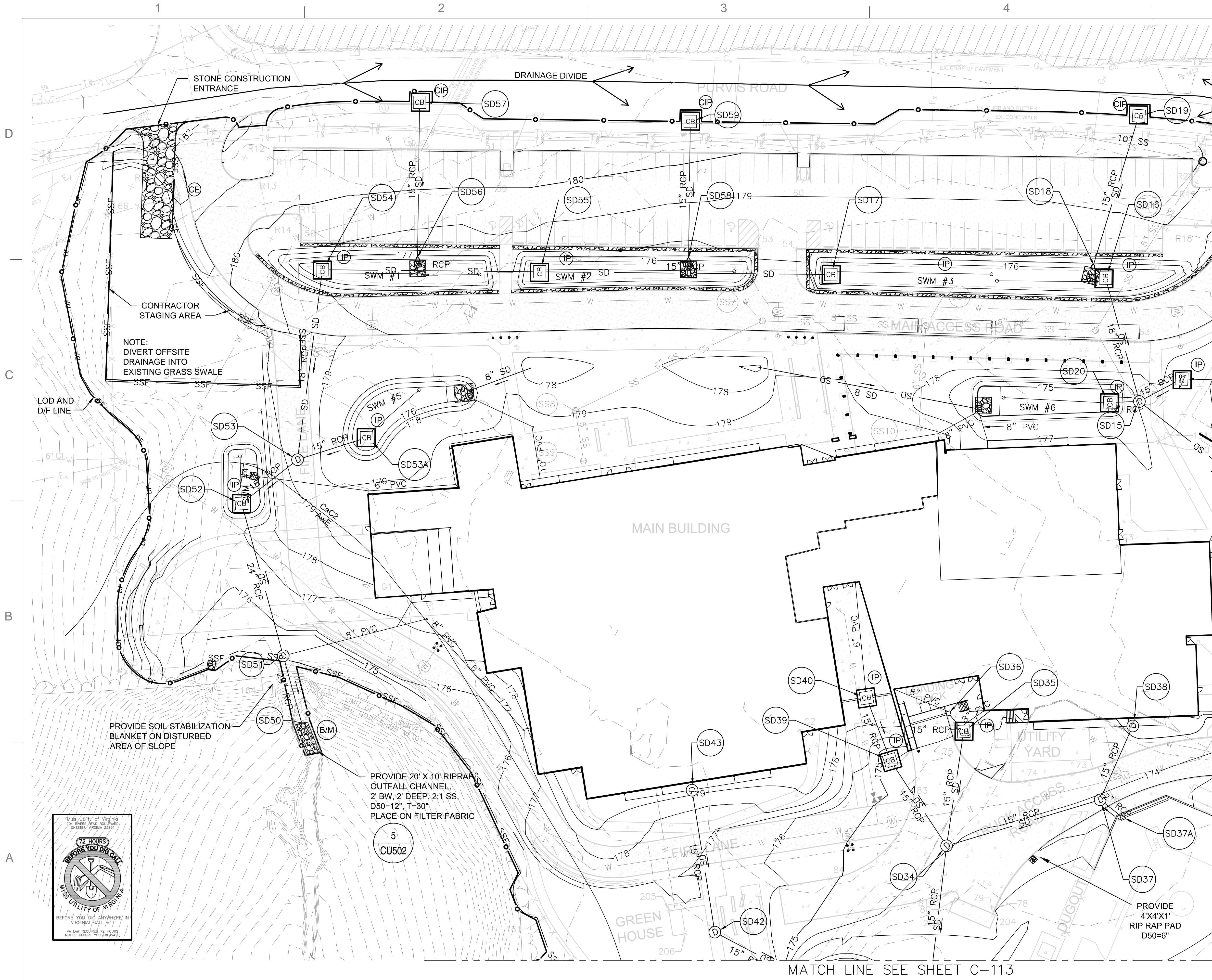
13090781

SHEET 27 OF 789

C-103

DRAWING REVISION: 10 MARCH 2009





NOTE:
PRIOR TO ANY LAND DISTURBANCE
ACTIVITIES, CONDUCT A PRE-CONSTRUCTION
CONFERENCE. GENERAL CONTRACTOR SHALL
SCHEDULE PRE-CONSTRUCTION MEETING WITH
NAVFAC, NREA AND ALL GROUND
DISTURBANCE CONTRACTORS PRIOR TO
START OF CONSTRUCTION
PHASE 2
NOTE:
SEE SEQUENCE OF CONSTRUCTION ON
SHEET C-501.

STABILIZE GRADED AREAS IMMEDIATELY
AFTER FINAL GRADING IS COMPLETED. ON
AREAS THAT WILL HAVE NO ADDITIONAL
DISTURBANCE, PERMANENT VEGETATION
SHOULD BE APPLIED IMMEDIATELY TO THE
SITE (SEE PERMANENT SEEDING PRACTICE) IF
GRADING IS FINISHED OUTSIDE OF THE
RECOMMENDED PLANTING DATES A
TEMPORARY COVER SHOULD BE INSTALLED
USING TEMPORARY SEEDING OR OTHER
APPROPRIATE COVER AND THE PERMANENT
SEEDING PLANNED FOR THE NEXT PLANTING
PERIOD. ON AREAS WHERE WORK IS TO BE
INTERRUPTED OR DELAYED FOR 14 WORKING
DAYS OR LONGER, SUCH AS TOPSOIL
STOCKPILE, THE AREA SHOULD BE
STABILIZED USING MULCH OR TEMPORARY
SEEDING (SEE MULCHING OR TEMPORARY
SEEDING PRACTICE).

SEDIMENT AND EROSION CONTROL MEASURES
SHALL BE IN ACCORDANCE WITH THE LATEST
ADDITION OF THE VIRGINIA EROSION AND
SEDIMENT CONTROL HANDBOOK.

SEDIMENT AND EROSION CONTROL LEGEND

SUPER SILT FENCE	3 C-502	SSF	IP
DIVERSION FENCE	1 C-502	DF	
DRAINAGE DIVIDE			
LIMIT OF DISTURBANCE			
CONSTRUCTION ENTRANCE	1 C-501	CB	
CURB INLET PROTECTION	1 C-503	CIP	
DROP INLET SILT FENCE	2 C-502	IP	

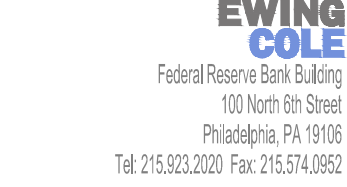
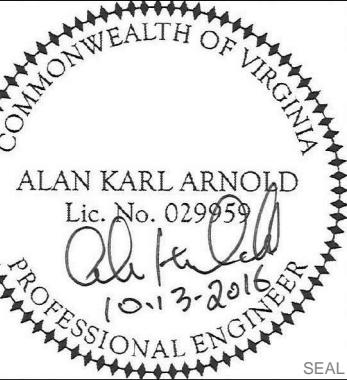
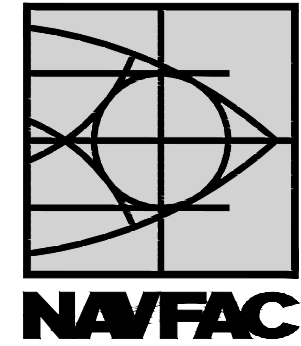
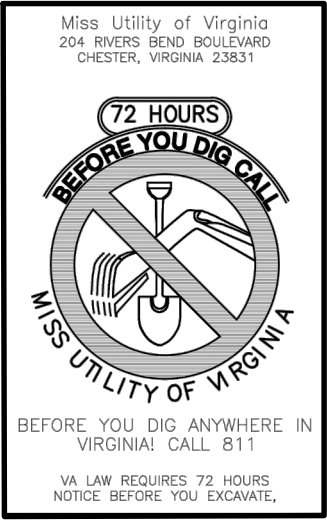
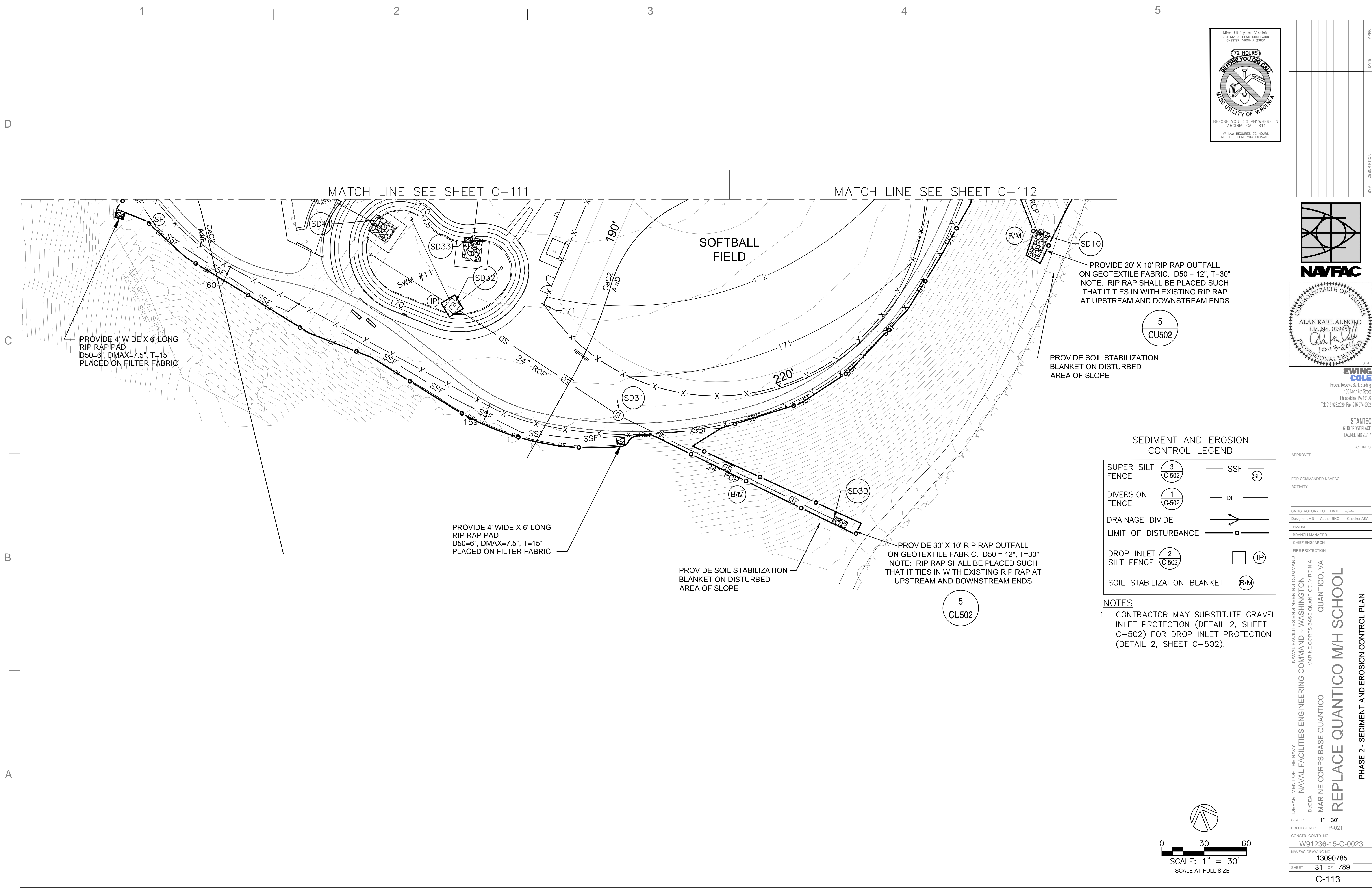
NOTES

- BACKGROUND TOPOGRAPHIC & SITE
INFORMATION ON THIS PLAN ARE
MEANT TO DEPICT CONDITIONS AFTER
FUTURE DEMOLITION OF RUSSELL
ELEMENTARY SCHOOL AND MAY NOT
REFLECT ACTUAL SITE CONDITIONS.
- EXISTING CONTOURS SHOWN WITHIN
THE ELEMENTARY SCHOOL PROJECT
DEMOLITION LIMITS MAY NOT REFLECT
CURRENT CONDITIONS.
- CONTRACTOR MAY SUBSTITUTE GRAVEL
INLET PROTECTION (DETAIL 2, SHEET
C-502) FOR DROP INLET PROTECTION
(DETAIL 2, SHEET C-502).



DATE	APPR.
DESCRIPTION	SYM.
APPROVED	ACTIVITY
FOR COMMANDER NAVFAC	
SATISFACTORY TO DATE	
DESIGNER JMS	AUTHOR BKO
CHECKER AKA	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	
MARINE CORPS BASE QUANTICO, VIRGINIA	
QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL	
PHASE 2 - SEDIMENT AND EROSION CONTROL PLAN	
SCALE: 1" = 30'	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.	
W91236-15-C-0023	
NAVFAC DRAWING NO.	
13090783	
SHEET 29 OF 789	
C-111	
DRAWING REVISION	
10 MARCH 2016	

RTA SUBMISSION - 10/13/2016



APPROVED

FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

Designer JMS Author BKO Checker AKA

PMCM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

Marine Corps Base Quantico, Virginia

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

PHASE 2 - SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1" = 30'

PROJECT NO.: P-021

CONSTR. CONTR. NO.

W91236-15-C-0023

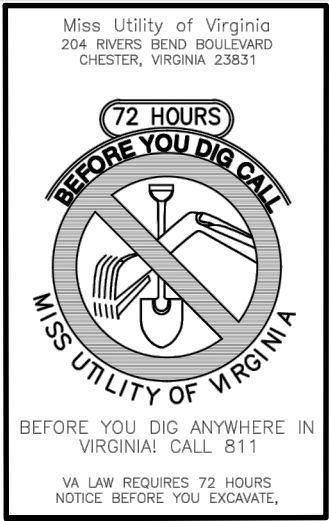
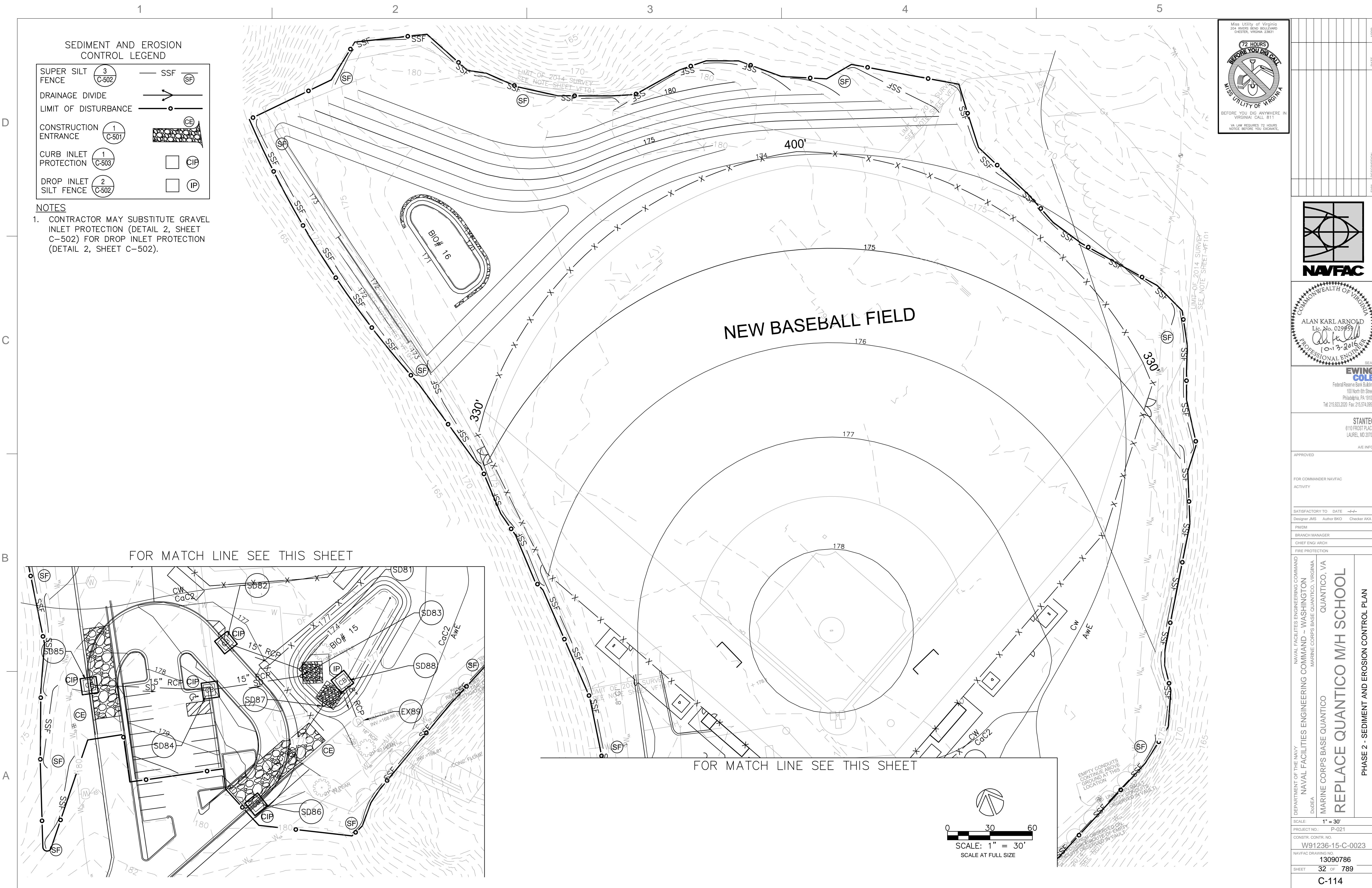
NAVFAC DRAWING NO.

13090785

SHEET 31 OF 789

C-113

DRAWING REVISION: 10 MARCH 2016



APPROVED	DATE	APPR.
FOR COMMANDER NAVFAC ACTIVITY		
SATISFACTORY TO DATE	DATE	
DESIGNER JMS	AUTHOR BKO	CHECKER AKA
PMOM		
BRANCH MANAGER		
CHIEF ENG/ ARCH		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	QUANTICO, VA
DDEA	MARINE CORPS BASE QUANTICO, VIRGINIA	
	REPLACE QUANTICO M/H SCHOOL	
SCALE: 1" = 30'	PROJECT NO. P-021	
CONSTR. CONTR. NO. W91236-15-C-0023		
NAVFAC DRAWING NO. 13090786		
SHEET 32 OF 789		
C-114		
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CHECKED BY	DATE	
APPROVED BY	DATE	
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